# Image description

## Roller coaster

The image shows a side-view of a rollercoaster.

It is flat and straight between points A and B. It dips to point C. Then rises again to point D, which has a lower elevation than point B. It falls again sharply to point E which is the lowest point on the coast. It then rises steeply to point F and then gradually to point G.

The question reads:

“The picture above shows the track of a roller coaster, which travels at a slow constant speed between A and B. How will the speed of the roller-coaster vary as it travels along the track from A to G?

Describe your answer in words and by sketching a graph”

“Try to answer the following questions using only the graph you drew:

* Along which sections of track was the roller-coaster travelling quickly? Slowly?
* Was the roller coaster travelling faster at B r D? D or F? C or E?
* Where was the roll-coaster accelerating (speeding up)? Decelerating (slowing down)?

Check your answers to these questions by looking back at the picture. If you find any mistakes, redraw your graph.

Do you notice any connection between the shape of the roller-coaster track and the speed graph? Try drawing some additional tracks and sketching their speed graphs. Are there any exceptions?”

## Sports

This exercise has been modified slightly to accommodate people with visual impairments.

Create a graph for each of the following sports. Put speed on the vertical y-axis, and time on the horizontal x-axis.

* Fishing
* Pole vaulting
* 100 metre spring
* Golf
* Archery
* Javelin throwing
* Sky diving
* Basketball
* Cliff diving
* Snooker
* Drag racing
* Water skiing